

Title (en)  
PROTECTIVE CASING FOR A HAND-HELD PORTABLE RADIO TELEPHONE

Publication  
**EP 0348187 A3 19910612 (EN)**

Application  
**EP 89306281 A 19890622**

Priority  
JP 15468088 A 19880624

Abstract (en)  
[origin: EP0348187A2] A protective casing (64) for a hand-held portable radio telephone (66) has at least one antenna (68) built therein which is usable in place of an antenna (78) which is built in on the telephone. When two antennas (68,70) are provided in the protective casing, the one of them which has the more intense electric field than the other is automatically selected (72) during the course of conversation.

IPC 1-7  
**H04M 1/72**; **H04B 7/08**; **H04B 1/034**

IPC 8 full level  
**H04B 1/38** (2006.01); **H04B 7/08** (2006.01); **H04B 7/26** (2006.01); **H04W 88/02** (2009.01)

CPC (source: EP KR)  
**H04B 1/3888** (2013.01 - EP); **H04B 7/0808** (2013.01 - EP); **H04B 7/26** (2013.01 - KR); **H04B 7/0825** (2013.01 - EP)

Citation (search report)  
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• [A] US 4227258 A 19801007 - ROOT JAMES A, et al  
• [A] US 4525869 A 19850625 - HAMADA MASANORI [JP], et al  
• [XP] PATENT ABSTRACTS OF JAPAN, vol. 13, no. 142 (E-739)[3490], 7th April 1989; & JP-A-63 303 523 (MITSUBISHI ELECTRIC CORP.) 12-12-1988  
• [A] PATENT ABSTRACTS OF JAPAN, vol. 9, no. 178 (E-330)[1901], 23rd July 1985; & JP-A-60 047 502 (NIPPON DENSHIN) 14-03-1985

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